

DOC 32
Chap III
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BACKGROUND PAPER

ON

SPADOC ACQUISITION PROGRAM

1. PURPOSE. To provide background and status for the SPADOC acquisition program.

2. BACKGROUND. The Space Defense Operations Center (SPADOC) was activated on 1 October 1979 in the NCNC and is being operated by ADCOM.

a. SPADOC, Phase 1-3 (FY 80-84). ADCOM staff is implementing by:

(1) Phasing existing capabilities (e.g., SPADATS, Space Computation Center and IDHS support).

(2) Interfacing all U.S. military, civil and domestic space systems with SPADOC to create a national focal point for all space defense matters.

(3) Establishing space defense procedures (e.g., ZAP with NMCC warning, notification to owners/operators).

(4) Developing countermeasure concepts and procedures with satellite owners/operators and implementing laser emission clearing-house function.

(5) Expanding its present functional capability, limited by manpower and equipment constraints.

b. SPADOC, Phase 4 (FY 85-87) a major system acquisition program is being led by two AFSC SPOs:

(1) Space Division (SD) is prime manager for the overall Space Defense System Program, which includes the Space Defense Command and Control System (SPADCCS) and its hub, the SPADOC.

(2) Electronics Systems Division (ESD) has been tasked by SD as a "subcontractor" to acquire the SPADOC. These acquisitions include ADPE, communications and data base management hardware/software to automate the SPADOC function.

3. STATUS. The currently proposed SPADOC acquisition program being developed by AFSC (SD and ESD) contains the following major elements:

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a. SPADOC, Phase 1-3.

(1) Minicomputers acquired to facilitate space systems status maintenance and data base organization. These may either be incorporated in the Phase 4 system or be replaced by Phase 4 ADPE acquisition.

(2) Communications upgraded to better utilize the owner/operator interfaces now being developed. This comm upgrade will be compatible with Phase 4 communications.

(3) Support to SPADOC in preparation of PMALS Flight Test.

b. SPADOC, Phase 4.

(1) The initial contract effort for the SPADOC 4 will be a dual contractor design definition phase. Each contractor will be asked to produce detailed specifications for the initial block of Phase 4 (4A) which they would deliver if awarded the follow-on contract. Each will also define and cost subsequent blocks. The blocks will be schedule and cost constrained, so that 4A will include only a portion of the full required capability. The full SPADOC with all blocks will satisfy the full requirements. We expect the block 4A to rely heavily on an upgraded PMOC for the battle management function; subsequent blocks would include the Mission Operations Center as envisioned by ADC.

(2) Procure new computer processors and software (Blocks A & B) to enable SPADOC to semiautomatically maintain dynamic data bases, generate warning messages and support countermeasure message traffic and status keeping. The processing capability procured would allow for growth as the mission evolves. The recommendation to integrate the SCC Upgrade, the IDHS Upgrade and the SPADOC Phase 4 acquisitions (SCC and SPADOC to be managed under one program, with IDHS closely tied and integral to the final SPADOC capability) was briefed to AF/RDS and other Air Staff elements in December 1990, and approved. PMD direction to implement the decisions is expected soon.

(3) Upgrade the currently envisioned PMOC to provide battle management capability for the PMALS IOC defined by the recent AFSPC IA guidance (Dr. Kemp's option). This is the significant change to prior SPADOC Phase 4 planning caused both by fiscal constraints and the markedly redefined PMALS IOC for 1985.

*** The information concerning ADC's views of the RFP, spec and SCW is not releasable to contractors.

ACTION OFFICER: NAV NEIL SCHLUSSEL, XPCS, EXT 3067 DATE: 18 JAN 1981
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WILLIAM R. KENTY, Colonel, USAF
Asst DC3/Plans, Policy, Programs
and Requirements